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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/515,872	02/29/2000	Isabelle Morvan	1807.1094	1542	
5514	7590 08/09/2005		EXAMINER		
FITZPATRICK CELLA HARPER & SCINTO			WINDER, P	WINDER, PATRICE L	
	30 ROCKEFELLER PLAZA NEW YORK, NY 10112			PAPER NUMBER	
	•		2145		
			DATE MAILED: 08/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/515,872	MORVAN ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication and	Patrice Winder	2145			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	-				
1) Responsive to communication(s) filed on 14 Ma	arch 2005.				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-48, 109-112 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 20-23 and 109-112 is/are allowed. 6) ☐ Claim(s) 1-19 and 24-48 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Amarkarant					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date U.S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1, 14, 24, 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant's specification lacks written description to support "using a single frequency". Therefore, "using a single frequency" is considered new matter.

Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 6-8, 10-13, 24-27 and 29-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Sherman, USPN 5,974,236 (hereafter referred to as Sherman).

Regarding claim 1, Sherman taught a method of communicating between communication stations adapted to communicate with each other when at least one of said communication stations supplies a synchronization signal (column 18, lines 44-50, 63-66).

the station then functioning in base station mode using a single frequency (frequency f_i, column 18, lines 50-58) and the stations not supplying a synchronization signal but synchronizing using the single frequency on a synchronization signal sent by a station functioning in base station mode then functioning in mobile station mode (column 18, lines 59-66),

wherein the method includes a request operation during which a first base station transmits, to a mobile station, a request for the storage in memory and transmission, by the mobile station, of a message to a communication station for which the message is intended (column 4, lines 6-16, column 7, lines 22-30) and which is not synchronized with or not using the single frequency with the first base station (target mobile station not using frequency, f_i, column 19, lines 10-18).

Regarding dependent claim 2, Sherman taught further including a response operation during which said mobile station transmits, to said first base station, a message accepting or refusing transmission of said message to the message destination station (column 12, lines 21-38).

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Regarding dependent claim 3, Sherman taught when said mobile station transmits an acceptance message to the first base station (column 12, lines 21-33, column 7, lines 22-27), it next performs a detachment operation, during which said mobile station desynchronizes from the first base station, the mobile station then not being synchronized with the first base station (column 17, lines 55-60).

Regarding dependent claim 6, Sherman taught as a preliminary to said request operation, the first base station performs an operation of selecting, from a location table, the mobile station which is the destination of the request to store in memory and to transmit (column 5, lines 6-13).

Regarding dependent claim 7, Sherman taught if during the response operation the mobile station transmits to the first base station a message refusing transmission of said message, the base station performs a new operation of selecting, from a location table, a mobile station which is the destination of the request to store in memory and to transmit (column 12, lines 33-41).

Regarding dependent claim 8, Sherman taught as a preliminary to the selection operation, the first base station performs an operation of determining synchronization or not of the message destination station with the first base station (within sub-network, column 18, lines 59-63, column 12, lines 3-26) and only when the message destination station is not synchronized with the first base station, an operation of selecting a mobile station which is the destination of the request to store in memory (column 19, lines 10-20).

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Regarding dependent claim 10, Sherman taught during the request operation, the first base station transmits, to the mobile station, the content of the message to be transmitted to the message destination station (column 5, lines 51-59).

Regarding dependent claim 11, Sherman taught during the request operation, the first base station transmits, to the mobile station, an identifier for the message destination station (column 5, lines 59-64).

Regarding dependent claim 12, Sherman taught during the request operation, the first base station transmits, to the mobile station, an identifier for the first base station (column 5, lines 63-64).

Regarding dependent claim 13, Sherman taught during the request operation, the first base station transmits, to the mobile station, an identifier for a source station which supplies, to the first base station, the message to be transmitted to the message destination station (column 5, lines 59-64).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 4-5, 9, 14-19, 28, 33-36 and 46-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman in view of Diepstraten et al., USPN 5,991,287 (hereafter referred to as Diepstraten).

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Regarding dependent claim 4, Sherman taught following said detachment operation, said mobile station performs an attachment operation during which it synchronizes with a second base station (column 17, lines 55-60). Sherman does not specifically without the two base stations synchronizing with each other. However, Diepstraten taught the two base stations not synchronizing with each other, the two base stations then not being synchronized with each other (column 1, lines 47-55). It would have been obvious to one of ordinary skill in the art at the time the invention was made that incorporating Diepstraten's second base station not synchronized to a first base station in Sherman's dynamically reconfigurable communications network would have improved handover in the communications network. The motivation would have been to prevent lost of information when a handover is attempted.

Regarding dependent claim 5, Sherman taught following said attachment operation, the mobile station performs a second transmission operation, during which said mobile station transmits said message to the message destination station (column 19, lines 13-18).

Regarding dependent claim 9, Sherman taught during the operation of determining the synchronization or not of the message destination station with the first base station (column 18, lines 59-63), the base station performs an operation of reading, in a location table, the operating mode of the message destination station (column 12, lines 3-26),

when the message destination station is functioning in mobile station mode, during said reading operation, the base station performs an operation of reading the

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identity of a base station with which the message destination station is synchronized (column 19, lines 18-22) and, when the base station with which the message destination station is synchronized is not the first base station, it is determined that the message destination station is not synchronized with the first base station (not in sub-network, column 19, lines 10-18).

Sherman does not specifically teach when the message destination station is functioning in base station mode, it is determined that the message destination station is not synchronized with the first base station. However, Diepstraten taught when the message destination station is functioning in base station mode, it is determined that the message destination station is not synchronized with the first base station (column 1, lines 47-55). For motivation for combination see claim 4, above.

Regarding claim 14, Sherman taught a method of communicating between communication stations adapted to communicate with each other when at least one of the communication stations supplies a synchronization signal (column 18, lines 44-50), the station then function in base station mode using a single frequency (frequency, f_i, column 18, lines 50-58) and the stations not supplying a synchronization signal but synchronizing using the single frequency on a synchronization signal sent by a station functioning in base station mode then functioning in mobile station mode (column 18, lines 59-60), wherein the method includes:

a first operation of receiving a message, during which a mobile station synchronized with a first base station receives a message coming from the first base station (column 4, lines 6-16, column 7, lines 22-30),

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an operation of detachment and attachment, during which the mobile station synchronizes with a second base station (column 17, lines 55-65), and

a second transmission operation, during which the mobile station transmits the message to the second base station (column 19, lines 16-18). Sherman does not specifically teach without the two base stations synchronizing with each other, the two base stations then not being synchronized with each other (column 1, lines 47-55). However, Diepstraten taught without the two base stations synchronizing with each other. For motivation for combination see claim 4, above.

Regarding dependent claim 15, Sherman taught following the message reception operation and preliminary to the detachment and attachment operation, the mobile station performs an availability test during which it determines whether a communication would be interfered with by the detachment and attachment operation and, if during the availability test it is determined that no communication would be interfered with by a detachment and attachment operation, the detachment and attachment operation is performed (column 17, lines 47-63).

Regarding dependent claim 16, Sherman taught during the availability test, the mobile station determines whether or not it is participating in a current communication and, if it is participating in a current communication, it is determined that communication would be interfered with by the detachment and attachment operation (column 18, lines 10-18).

Regarding dependent claim 17, Sherman taught following the message reception operation and preliminary to the detachment and attachment operation, the mobile

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station performs an availability test during which it determines whether or not a quantity of energy available to it is greater than a predetermined quantity and, if during the availability test it is determined that the quantity of energy is greater than the predetermined quantity, the detachment and attachment operation is performed (column 17, lines 55-60).

Regarding dependent claim 18, Sherman taught preliminary to the detachment and attachment operation, the mobile station performs a response operation during which the mobile station, transmits, to the first base station, a message accepting transmission of the message (column 18, lines 10-18).

Regarding dependent claim 19, Sherman taught the message represents traffic between the mobile stations synchronized on the first base station and the first base station (routing list from origination to destination in sub-network, column 5, lines 63-64).

Regarding claims 36, Sherman taught network, characterized in that it has at least two devices (column 4, lines 6-10).

7. Claims 37-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sherman and Diepstraten as applied to claim 14 above, and further in view of Nago, USPN 6,078,609 (hereafter referred to as Nago).

Regarding dependent claim 37-45, Sherman a communications station characterized in that it has a device according to any one of Claims 24 and 33.

Sherman does not specifically teach a particular communications device. However, Nago Telephone, Photographic apparatus, Printer, Scanner, Camera, Computer, Facsimile machine, Television receiver, or Audio/video player, (column 3, lines 23-28). It

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would have been obvious to one of ordinary skill in the art at the time the invention was made that incorporating Nago's communications devices in Sherman's dynamically reconfiguration communications network would have improved system effectiveness.

The motivation would have been because any of Nago's communication devices would function equivalently in a wireless communications network.

8. The language of claims 24-35, 46-48 is substantially the same as claims 1-19. Therefore, claims 24-35, 46-48 is substantially the same as previously rejected claims 1-19.

Response to Arguments

- 9. Applicant's arguments filed March 14, 2005 have been fully considered but they are not persuasive.
- 10. Applicant argues "Sherman is therefore not seen to disclose or suggest that a base station uses a single frequency, and that mobile stations synchronize to the base station using the single frequency. In addition, Sherman is not seen to disclose or suggest the attendant benefits provided by using a single frequency, such as simplified communication between communication stations."
 - a. Applicant's specific claim language is as follows "the station functioning in base station mode using a single frequency". Literally, a single frequency is used when "the station" is functioning in applicant's "base station mode". Other stations in the system synchronize to the base station mode using "the single

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frequency". This is not the same a base station restricted to operating at a single frequency as applicant is arguing.

b. Sherman's central communication node operates in a base station mode to synchronize with the communication nodes of a plurality of sub-networks. Although in one embodiment the sub-networks operate at different frequencies that is not always the case. In another embodiment, frequency of the sub-networks can be the same. (See Sherman, column 18, lines 50-58). Then, Sherman's central communication node operates at single frequency with respect to any of the possible communication nodes of the sub-networks, i.e. the communication nodes synchronize at a single frequency.

Allowable Subject Matter

11. Claims 20-23, 109-112 are allowed.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrice Winder whose telephone number is 571-272-3935. The examiner can normally be reached on Monday-Friday, 10:30 am-7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 571-272-6159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Patrice Winder Primary Examiner Art Unit 2145

atrice Winder

August 6, 2005